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Green Building Concept at Children Activity Centre

S. Z. Hashim, H. Hashim, A. A. Saleh, N. Kamarulzaman

Universiti Teknologi MARA (Perak), Seri Iskandar, Perak, Malaysia

Abstract

Green building practices are perceived by many construction industry professionals to be part of the solution to these problems. The green building criteria included an integrated design process, environmental impacts, water conservation, energy efficiency and etc. Based on the criteria, how it can be apply in the Children Activity Centre. This concept can give more comfortable to children during the learning process. This concept also can give advantages to environment and community because it can save on the cost of maintenance and also it can provide a private space to the children. The tool used to achieve best practice in this research is benchmarking for efficiency.

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Keyword: Sustainable, environmental issues and waste material

1. Introduction

Green building is an outcome of a design which focuses on increasing the efficiency of resources use energy, water and materials while reducing building impacts on human health and the environment during the building's lifecycle, through better siting, design, construction, operation, maintenance and removal.

To reduce building-related environmental impacts while creating places that are healthier and more satisfying for people, the suitable concept that can be use is green building which is its more systematic approach to create, sustain, and accelerate changes in practice, technology, and behavior. Green building

* Corresponding author.

E-mail address: sitiz056@perak.uitm.edu.my

also can reduced operating cost by increasing productivity and using less energy and water, improved public and occupant health due to improved indoor air quality and can reduced environmental impacts.

2. Green Building Elements

They also have divided the elements of green development and design into three categories [1].

Environmental responsiveness

A big part of environmental responsiveness is optimizing site potential. It is important to look at all environmental impacts of a building and ensure that negative impact is minimized. There is even the potential that there may be an opportunity for ecological restoration within the design of the development.

Resource efficiency

Resource efficiency is the process of doing more with less using fewer (or less scarce resources) to accomplish the same goals. Resource efficiency can be applied to many aspects of the building process, including: building design, material selection, waste reduction, water conservation, and energy efficiency.

Community and cultural sensitivity.

This category applies to the social aspect of building. Included in this is developing so as to encourage a sense of community. This means taking into account meeting places such as parks common areas, porches and the like. A designer who is sensitive to this category will recognize that the building will become a part of the community. Cultural sensitivity takes into account the history, culture and existing motif of the community. It means building to fit or blend into the community.

When 'green' is the goal, whole building engineering is one of the most important factors. Whole building engineering is accomplished when the designers and engineers look at all of the components and aspects of a building, including the site, and determine how they will best work together. Considerable time and effort is expended when this holistic approach is employed. Designers and engineers, in the interest of time and money, often take a one-size-fits-all approach instead of looking at the uniqueness of each building's design and intended use.

3. Criteria of Green Building Done in Other Country

The green building criteria and sustainable development criteria promote public health, energy conservation, operational savings and sustainable building practices in all housing design. As a result, the strategies in the following pages enhance affordable housing and communities as a whole. In addition to increasing resource efficiency and reducing environmental impacts, green building strategies can yield cost savings through long-term reduction in operating expenses.

Green building practices improve the economics of managing affordable housing while enhancing quality of life for residents. He also states that when green building practices are incorporated into the location of affordable housing, placing homes near community amenities such as public transportation to create walk able, live able neighborhoods, the benefits for residents and communities include fewer sprawl-related transportation impacts.

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